

CIC
CRITICAL ITEMS LIST
FILE: CIC-500/2

NAME	P/H	CAUSE	FAILURE EFFECT	NOTICEABLE FOR ACCEPTANCE
WHTN	Z/IN	REFRESHED.	END ITEM.	A. DESIGN - CAP IS SOFT STEEL/GOLD ALLOY AND IS PWR-REACTIVE. SEAL HAS REFRESH BACK UP RING ON ONE SIDE AND DELTA RET-F BACK-UP RING ON THE OTHER. A METAL INTERFACE IS LOCATED DOWNSIZING. THE O-RING DIMENSIONS AND THE RIGIDNESS OF THE PARTS PROVIDE SOLLENE UNDER ALL LOAD CONDITIONS. THE SEALING AREA IS A SAPPHIRE BALL ON A WOOLY SEAL.
PRESSURE		EXTERNAL GAS LEAKAGE.	LEAKAGE OF EMERGENCY G2 SUPPLY TO WHTN.	B. TEST - VENIER COMPONENT ACCEPTANCE TEST - THE REGULATOR MANUFACTURER, CVC, PERFORMS AN EXTERNAL LEAKAGE TEST TO ENSURE SEAL INTEGRITY.
FILL				
CONNECTOR				
INCH 4327				
AND ING				
SWITC-HTE-				
DS				
03				
FC191-1				
X				

POSSIBLE:
TERMINATE EVA
PREM CNS ISSUES
LOW SOD BOTTLE
PRESSURE
CHAMBER. LOSS
OF USE OF ONE
CHU.

CRASH/VEHICLE;
NONE FOR SINGLE
FAILURE.
POSSIBLE LOSS
OF CRASHABLE ITEM
LOSS OF THE
PLATE.

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PWR-REACTIVE. SEAL HAS REFRESH BACK UP RING ON ONE
SIDE AND DELTA RET-F BACK-UP RING ON THE OTHER. A
METAL INTERFACE IS LOCATED DOWNSIZING. THE O-RING
DIMENSIONS AND THE RIGIDNESS OF THE PARTS PROVIDE
SOLLENE UNDER ALL LOAD CONDITIONS. THE SEALING
AREA IS A SAPPHIRE BALL ON A WOOLY SEAL.

B. TEST -
VENIER COMPONENT ACCEPTANCE TEST -
THE REGULATOR MANUFACTURER, CVC, PERFORMS AN
EXTERNAL LEAKAGE TEST TO ENSURE SEAL INTEGRITY.

C. TESTS -
THE ITEM IS INTERNAL. LEAKAGE TESTED ON THE
SEPARATELY DRAINED PORTION (SDP). THE SDP BOTTLES
ARE PRESSURIZED TO 5000-5200 PSIG HIGH & 12 ONE
AND THE CNS LOW. THE FILL VALVE, THE TEST POINT
VALVE, AND ING ARE CAPPED HIGH AND APPROPRIATE
FLIGHT CAP AND TORQUED TO 30-40 IN-LBS. THE ITEM
IS TESTED IN CHAMBER VACUUM AND LEAKAGE MUST NOT
EXCEED 9.85 X 10⁻³ SCCS/SEC HR. 9.85 X 10⁻³
SCCCS HR REPRESENTS TOTAL SDP LEAKAGE.

CERTIFICATION TEST -
THE ITEM COMPLETED 964 HD FLIGH HOURS DURING 07/87
WHICH IS 50 TIMES THE CERTIFICATION REQUIREMENT OF
19 HOURS. THE ITEM COMPLETED 112 FLIGH-TEST CYCLES
DURING 07/82 WHICH IS 3 TIMES THE CYCLE
CERTIFICATION REQUIREMENT OF 38. THE ITEM
COMPLETED THE 15 YEAR STRUCTURAL VIBRATION AND
SHOCK CERTIFICATION REQUIREMENT DURING 07/81. NO
CLASS I ENGINEERING CHANGES HAVE BEEN INCORPORATED
SINCE THIS CONFIGURATION WAS CERTIFIED.

D. INSPECTION -
ALL DETAILS, BASES AND TEST FACILITIES ARE CLEANED
AND INSPECTED TO HIGHEST EHSQA TO PRECLUDE
CONTAMINATION EXCLUDING. DETAILS, INCLUDING THE
O-RING, O-RING CAVITIES, AND SEALING SURFACES, ARE
LOOK INSPECTED PER DRAWING DIMENSIONS AND SURFACE
FINISH CHARACTERISTICS. DETAILS ARE MANUFACTURED
FROM MATERIAL WITH CERTIFIED PHYSICAL AND CHEMICAL
PROPERTIES. THE MACHINING AND FINISH FINISH OF ALL
THREADED CONNECTIONS ARE VERIFIED BY VENIER AND
WEAR INSPECTION.

811
EPA-84-00000
file: CBL-900/2

NAME	FACILITY	FAILURE SOURCE	CRITERIA FOR ACCEPTANCE
P/W	NODE 3		
RTV	CBB	CAUSED	
WICH	2/10	223PPHRS; INTERNAL O/R LEAKAGE.	
PRESSURE			B. FAILURE HISTORY - NMID-200-0402 10-23-001, NMID-210-002 16-10-011, NMID-211-002 06-19-001, NMID-211-003 07-16-001, NMID-211-004 10-7-011, THE VALVE TURNED OUT TO POSITION BEFORE PUMPING SOLVER SELECTED ON HIGH WIDTH DURING BIMESTER HEAVY FLIGHT USE. VALVE DESIGNED TO USE VESSEL SEAT AND CAPTURE DUE TO ACCIDENT-012.
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